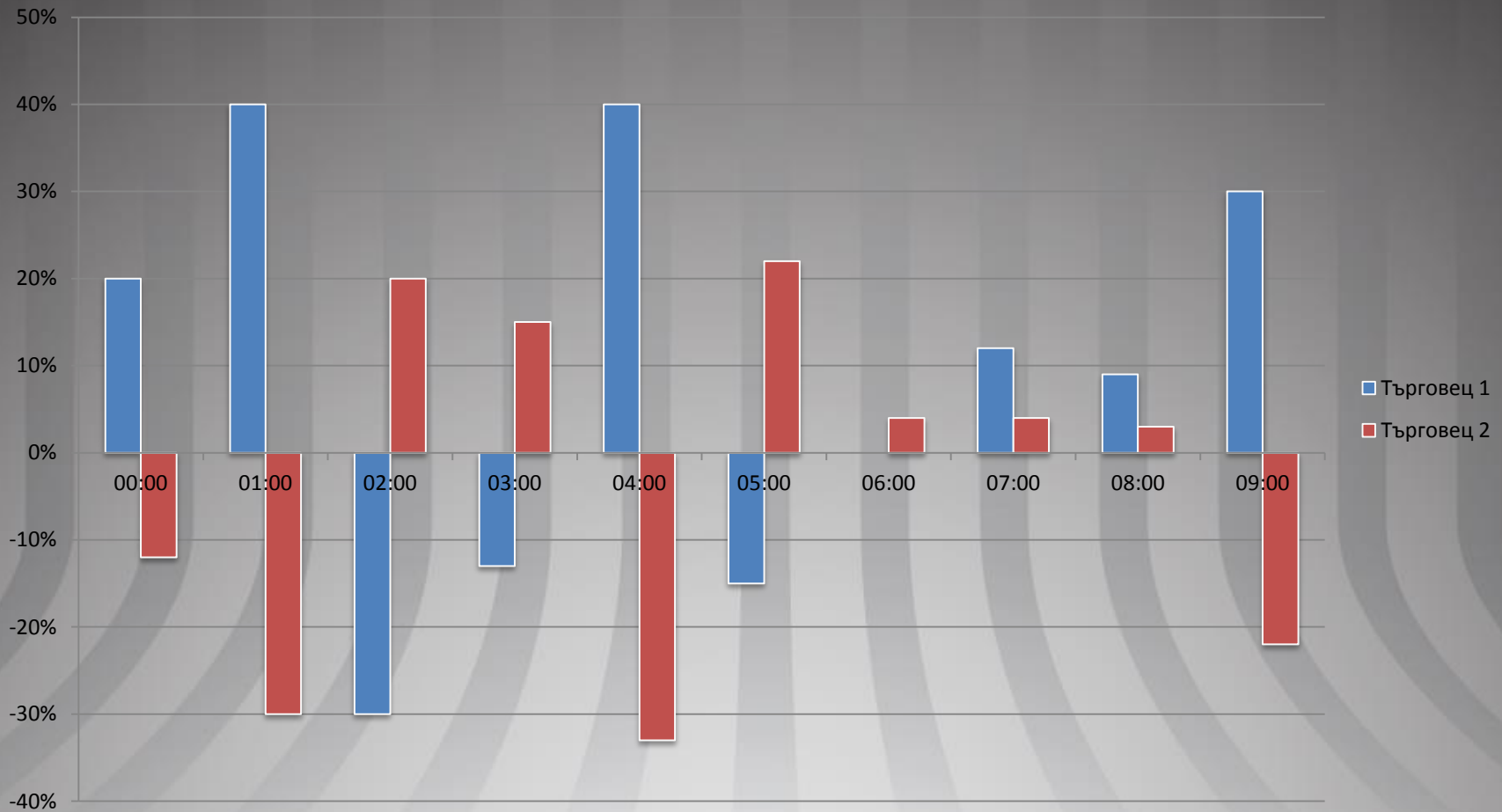
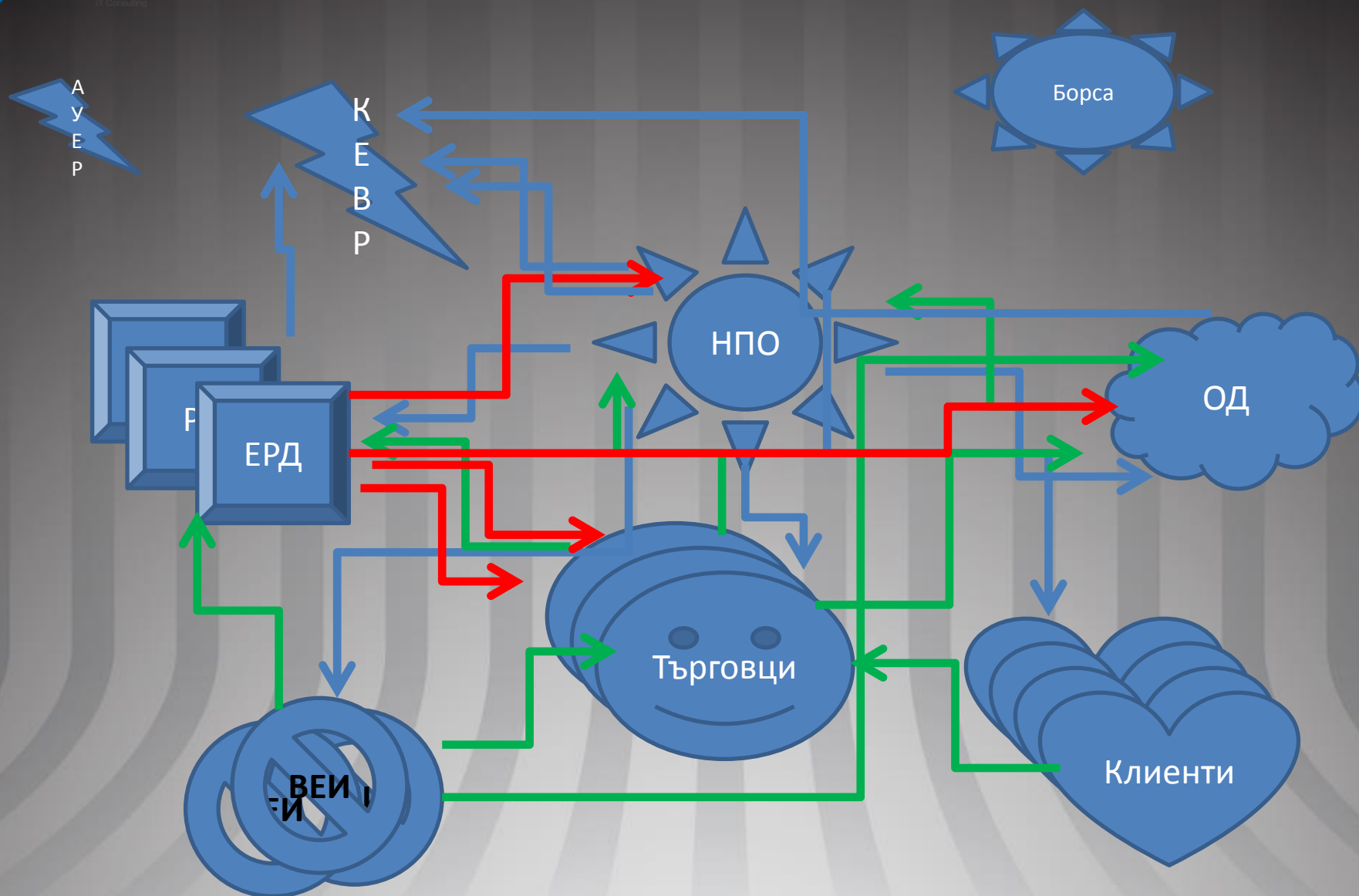


# Енергийните пазари са ..... просто обмен на информация

инж. Васил Петев  
ЗВМ ЕООД





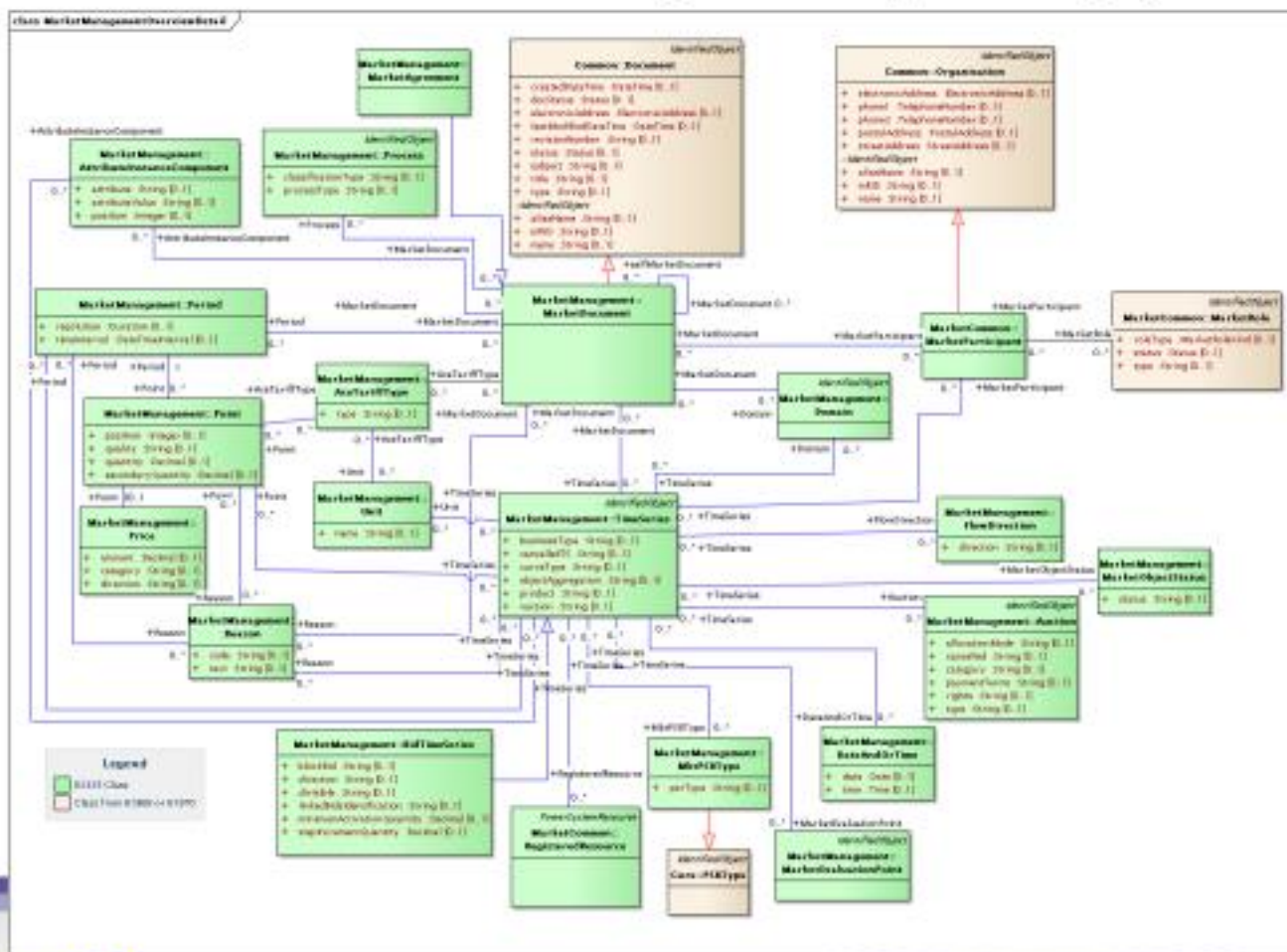


## **IEC 62325 - a set of standards related to deregulated energy market communications, based on the Common Information Model**

- IEC 62325-101: General guidelines
- IEC 62325-102: Energy market model example
- IEC 62325-301: Common information model (CIM) extensions for markets
- IEC 62325-351: CIM European market model exchange profile
- IEC 62325-450: Profile and context modelling rules
- IEC 62325-451-1: Acknowledgement business process and contextual model for CIM European market
- IEC 62325-451-2: Scheduling business process and contextual model for CIM European market
- IEC 62325-451-3: Transmission capacity allocation business process and contextual models for European market
- IEC 62325-451-4: Settlement and reconciliation business process, contextual and assembly models for European market
- IEC 62325-451-5: Problem statement and status request business processes, contextual and assembly models for European market
- IEC 62325-451-6: Publication of information on market, contextual and assembly models for European style market
- IEC 62325-452: North American style market profiles
- IEC 62325-501: General guidelines for use of ebXML
- IEC 62325-502: Profile of ebXML
- IEC 62325-503: Market data exchanges guidelines for the IEC 62325-351 profile
- IEC 62325-504: Utilization of web services for electronic data interchanges on the European energy market for electricity
- IEC 62325-550-2: Common dynamic data structures for North American style markets
- IEC 62325-552-1: Dynamic data structures for day ahead markets (DAM)



# Information model (IEC 62325-301 Market management package)



# Малко директиви и регламенти

Регламент (ЕС) № 714/2009 относно условията за достъп до мрежата за трансграничен обмен на електроенергия

Регламент (ЕС) 1227/2011 относно интегритета и прозрачността на пазара за търговия на едро с енергия

**REMIT, Implementing Act 7 януари 2015, deadline, 7 октомври 2015**

Регламент(ЕС) № 543/2013 а представяне и публикуване на данни на пазарите за електроенергия

**ETR - Electricity Transparency Regulation, 4 януари 2015**

EMIR – European Market Infrastructure Regulation

MiFiD II – Markets in Financial Instruments Directive

CRD IV - Capital Requirements Directive IV

MAD II/ MAR - Update to Market Abuse Directive



## REMIT Table 1 (Standard Trades) – Part 1

Field Number	Field Name (in TRUM)	Comment
1	ID of the market participant/counterparty	Our ID
2	Type of ID used in field 1	As in the CEREMP
3	Trader ID as identified by the Organised Market Place	Do we have this?
4	ID of the other market participant or counterparty	Their ID
5	Type of code used in field 5	This is also from the CEREMP!
6	Reporting Entity ID	Which RRM?
8	Beneficiary of the party in field 1	When trading as agent
10	Trading capacity of the party in field 1	Agent or Principal
11	Buy/Sell Indicator	See TRUM for guidance
12	Initiator/Aggressor	Where do you get this from?
21	ContractID	Provided by OMP or counterparties
22	Contract Name	Determined by OMP
23	Contract Type	See TRUM for guidance
24	Energy Commodity	Gas or power?
25	Fixing Index or reference price	
26	Settlement Method	Cash or physical
27	Organised Market Place ID/OTC	MIC code of exchange/broker
28	Contract Trading hours	When the contract trades
29	Last trading date and time	
30	Transaction time stamp	To the millisecond (for on venue)
31	Transaction ID	This is the UTI
32	Linked Transaction ID	Use for spark spread etc.
33	Linked Order ID	Do we have this?
34	Voice Brokered	

Browser tabs: GID Task App, Issues - victorminchev/ptezend, http://demo.stedex.com/, ec2-54-247-0-34.eu-west-1.compu..., ec2-54-247-0-34.eu-west-1.compu..., ec2-54-247-0-34.eu-west-1.compu...

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Search for PHP information: on Zend.com

				CurrentT5	PlantID	InverterId	ts	PAC	PACd	IAC	IACd	UAC	UACd	FAC	FACd	PDC	PDCd	IDC	IDCd	UDC	UDCd	Temp1	Temp1d	Temp2	Temp2d	DayYield	DayYieldd	TotalYie
				2014-02-24 16:30:14	4108	24624	1388565600	0	0	0	0	2317	1	50	0	14	1	0	0	5624	1	1	0	68	1	0	0	3617
				2014-02-24 16:30:14	4108	24624	1388566200	954	1	4	1	2322	1	50	0	925	1	2	1	4882	1	13	1	87	1	0	0	3617
				2014-02-24 16:30:14	4108	24624	1388566800	1646	1	7	1	2319	1	50	0	1405	1	3	1	488	0	14	1	97	1	0	0	3617
				2014-02-24 16:30:14	4108	24624	1388567400	2284	1	1	0	2308	1	50	0	205	0	5	1	5305	1	17	1	106	1	0	0	3617
				2014-02-24 16:30:14	4108	24624	1388568000	2854	1	12	1	2312	1	50	0	2697	1	5	1	5446	1	22	1	114	1	1	1	3617
				2014-02-24 16:30:14	4108	24624	1388568600	340	0	15	1	2303	1	50	0	333	0	6	1	5621	1	26	1	118	1	1	1	3617
				2014-02-24 16:30:14	4108	24624	1388569200	4283	1	19	1	231	0	50	0	4236	1	8	1	5651	1	3	0	124	1	2	1	3617
				2014-02-24 16:30:14	4108	24624	1388569800	4846	1	21	1	2305	1	50	0	4767	1	8	1	572	0	35	1	129	1	2	1	3617
				2014-02-24 16:30:14	4108	24624	1388570400	5639	1	24	1	230	0	50	0	5493	1	1	0	571	0	38	1	133	1	3	1	3617
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				2014-02-24 16:30:14	4108	24624	1388571600	6171	1	27	1	230	0	50	0	6173	1	11	1	5729	1	41	1	139	1	5	1	3617
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System tray: EN, 10:25, 8.4.2014 г.

**В момента в българската нормативна уредба, касаеща енергетиката:**

Няма стандарти и процедури за електроенергичен обмен на данни и дори НЕ може да се докаже наличието на търговска сделка, вкл.:

цена, количество, периоди...

няма изискване за период на съхранение на информацията,  
за електронен подпис,

за получаване, ...

за сървърите на които се съхранява информацията...

## Privacy will be a key smart grid challenge

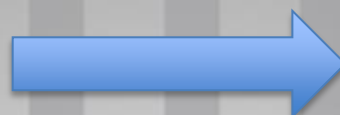


**The Smart Grid is watching you...**

# А защо само електроенергия?

Директива 2010/31/EU създава коренно различна бизнес среда за **ВСИЧКИ** участници на пазарите на енергия

Продажби на  
енергия



Развитие на  
енергийни  
услуги



Gas & electricity

Broadband, TV & home phone

Mobiles

Money

Insurance

Sign in



uSwitch.com > Gas & electricity > Guides > Who is my supplier? - uSwitch.com Gas and Electricity



## Who is my supplier?

Whether you're moving to a new property or you've been in your home for a while, you may be wondering **who supplies my electricity**, who supplies my gas, and should I change energy supplier to save?

Don't panic, there are a number of ways that you can find out which supplier you're with and whether you're getting the best deal. If you've just moved in see our [section entitled 'Just moved in and wondering who supplies your electricity or gas?' below.](#)

### Get the cheapest energy deal

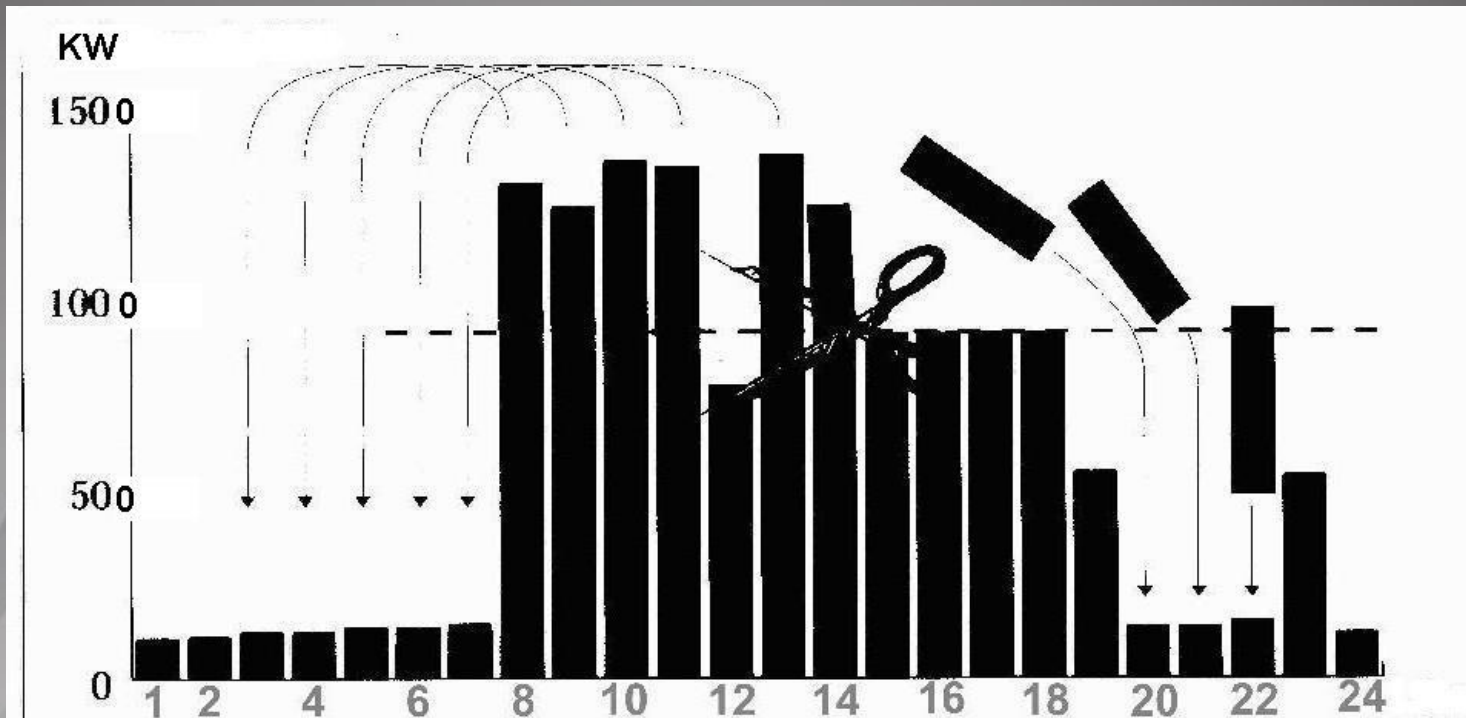
Just enter your postcode to find a cheaper deal today.

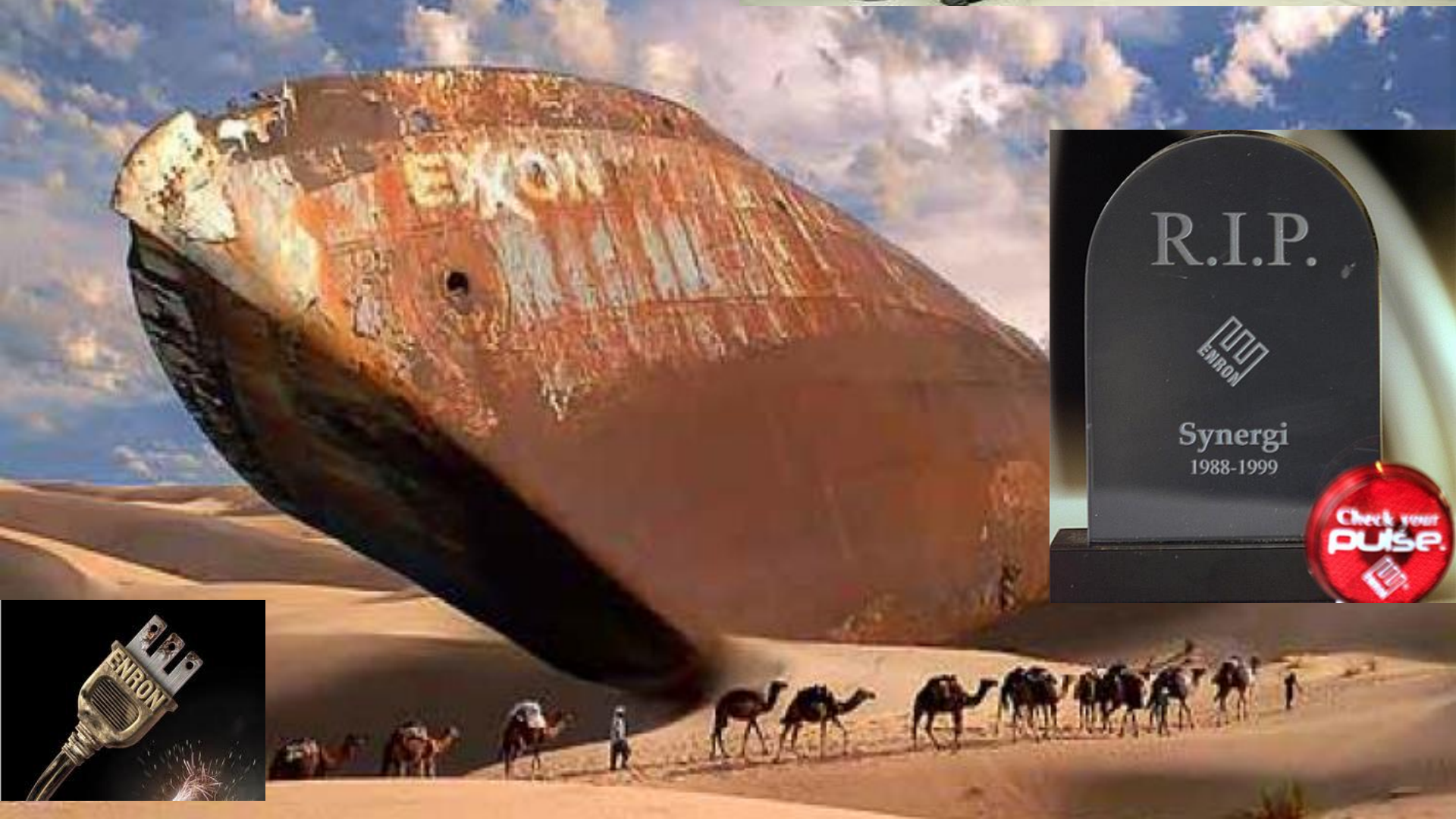
Your postcode:

Compare now ▶

# Управление на натоварването

## Demand Site management







# Грешки - загуби

- Кой е отговорен?
- Как се поправят?
- Кой плаща...

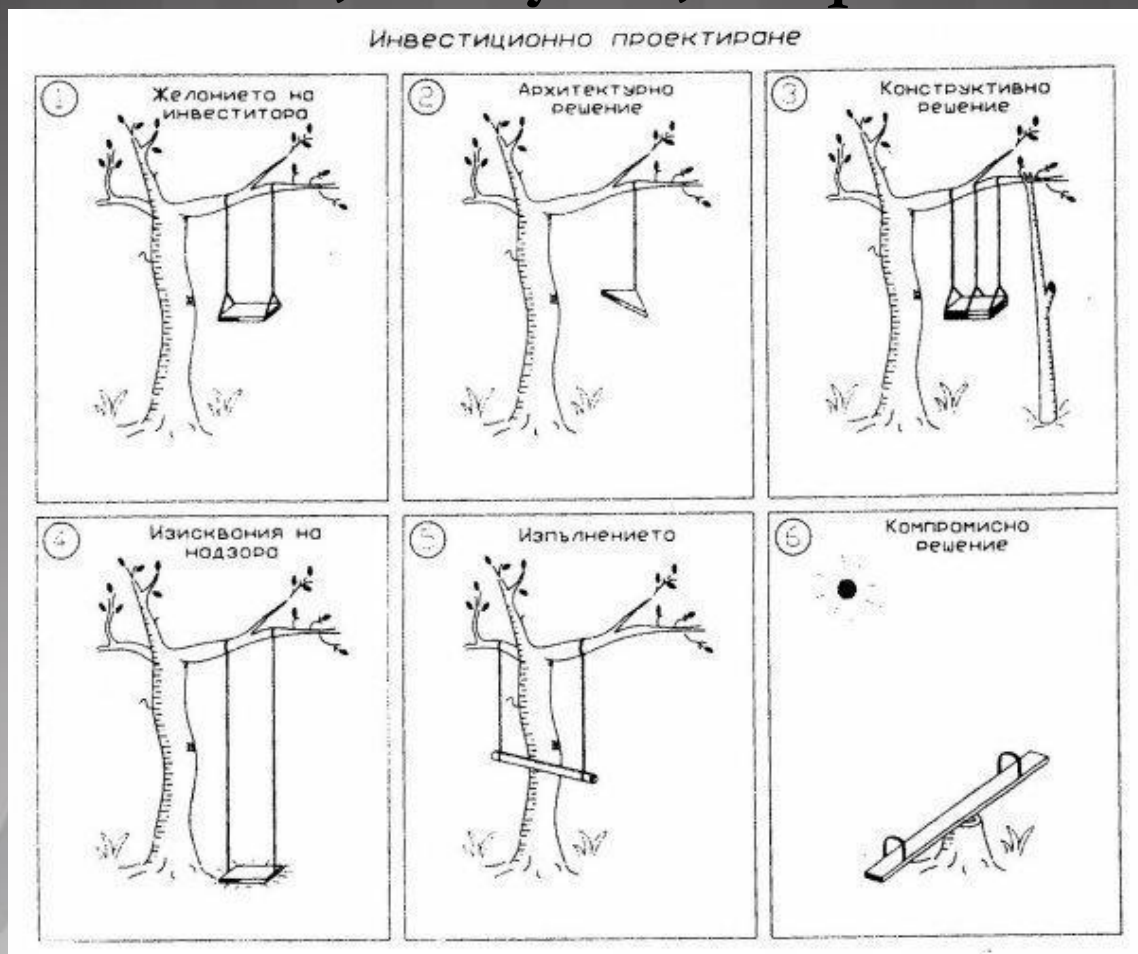


- ....**Всички ние като потребители**

## Двата пътя



# Диалог, дискусия, добра воля



**ВСИЧКИ трябва да участват активно при създаването и развитието на пазара на електроенергия!**

Пазарът е **навременен** обмен и анализ на  
**надеждна** и **сигурна** информация



**Благодаря за вниманието и търпението!**

инж. Васил Петев

3VM

[vassil.petev@3vmanage.eu](mailto:vassil.petev@3vmanage.eu)

М: +359 88 722 53 97

**“Не можем да решим проблемите, като използваме същия начин на мислене, който сме използвали, когато сме ги създавали.”**

**Алберт Айнщайн**